Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-04-19-05** **Date: 21-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements drain and providing Covering slabs at Singapura main road near Singapura Circle in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri. Subbanna, No.142, Singapura Village, Vidyaranyapura(P), Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-04-18
Sample ID No	:	2018-04-19-05 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	20-04-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.23	–
2	Finess by Air permeablity method (m^2/kg,Min)	295.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-04-19-05** **Date: 18-05-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements drain and providing Covering slabs at Singapura main road near Singapura Circle in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri. Subbanna, No.142, Singapura Village, Vidyaranyapura(P), Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-04-18
Sample ID No	:	2018-04-19-05 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	20-04-18
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	27.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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Vidyaranyapura Sub Division
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-04-19-05** **Date: 21-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements drain and providing Covering slabs at Singapura main road near Singapura Circle in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri. Subbanna, No.142, Singapura Village, Vidyaranyapura(P), Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	19-04-18
Sample ID No	:	2018-04-19-05 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	19-04-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	149	149	1.0	99.0	90-100
3	20 mm	7455	7604	50.7	49.3	30-70
4	10 mm	4056	11660	77.7	22.3	10-35
5	4.75 mm	3075	14735	98.2	1.8	0-5
6	Pan	265	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-04-19-05** **Date: 21-04-18**

Sample ID No : 2018-04-19-05 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**14.2**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**10.4**	
3	Specific Gravity	**2.64**	_
4	Bulk Density(Loose) (Kg/l)	**1.44**	_
5	Bulk Density(Compacted) (Kg/l)	**1.49**	_
6	Water Absorption(%)	**0.23**	_

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-04-19-05** **Date: 21-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements drain and providing Covering slabs at Singapura main road near Singapura Circle in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri. Subbanna, No.142, Singapura Village, Vidyaranyapura(P), Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-04-18
Sample ID No	:	2018-04-19-05 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	19-04-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	29	29	2.9	97.1	90-100	90-100	90-100	95-100
3	2.36 mm	202	231	23.1	76.9	60-95	75-100	85-100	95-100
4	1.18 mm	189	420	42.0	58.0	30-70	55-90	75-100	90-100
5	600 micron	204	624	62.4	37.6	15-34	35-59	60-79	80-100
6	300 micron	148	772	77.2	22.8	5-20	8-30	12-40	15-50
7	150 micron	135	907	90.7	9.3	0-10	0-10	0-10	0-15
8	Pan	93	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-04-19-05** **Date: 21-04-18**

Sample ID No : 2018-04-19-05 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.29	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron(%)	7.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID : **CP-2018-04-19-05**

Date: 21-04-18

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements drain and providing Covering slabs at Singapura main road near Singapura Circle in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.

Agency : Sri. Subbanna, No.142, Singapura Village, Vidyaranyapura(P), Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/87/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-04-18

Sample ID No : 2018-04-19-05 /04

Sample Type : Kamadhenu

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 20-04-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Kamadhenu	Fe500	8	0.393	532	610	21.0%	Satisfactory	Satisfactory
2	Kamadhenu	Fe500	10	0.612	548	660	19.5%	Satisfactory	Satisfactory
3	Kamadhenu	Fe500	12	0.884	559	678	19.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-04-19-05** **Date: 24-04-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements drain and providing Covering slabs at Singapura main road near Singapura Circle in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.

Agency : Sri. Subbanna, No.142, Singapura Village, Vidyaranyapura(P), Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/87/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-04-18

Sample ID No : 2018-04-19-05 /05

Sample Type /Size : 100mm thick Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 20/04/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.48	100.03	1.386	4474	86.7	19.4	18.0	22.5
2	Cover Slab-2	75.11	100.02	1.344	4430	88.9	20.1	18.7	23.3
3	Cover Slab-3	75.63	100.04	1.396	4492	87.4	19.5	18.1	22.6

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-04-19-05** **Date: 24-04-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements drain and providing Covering slabs at Singapura main road near Singapura Circle in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.

Agency : Sri. Subbanna, No.142, Singapura Village, Vidyaranyapura(P), Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/87/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-04-18

Sample ID No : 2018-04-19-05 /06

Sample Type /Size : 200mm thick Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 20/04/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.48	200.05	2.698	17781	349.6	19.7	18.3	22.9
2	Cover Slab-2	150.47	200.06	2.652	17779	351.7	19.8	18.4	23.0
3	Cover Slab-3	150.52	200.04	2.632	17791	345.4	19.4	18.1	22.6

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-30-04** **Date: 03/05/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements drain and providing Covering slabs at Singapura main road near Singapura Circle in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.

Agency : Sri. Subbanna, No.142, Singapura Village, Vidyaranyapura(P), Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/87/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-04-18

Sample ID No : 2018-04-30-04 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/04/2018	03/05/2018	150.22 X 149.63 X 150.22	22477	8.144	406.8	18.1	18.0
2	Drain Concrete	M20	26/04/2018	03/05/2018	149.68 X 150.74 X 150.34	22563	8.163	397.1	17.6	
3	Drain Concrete	M20	26/04/2018	03/05/2018	149.63 X 151.22 X 150.75	22627	8.175	416.3	18.4	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/05/2018

Lab ID	:	CP-2018-04-30-04
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements drain and providing Covering slabs at Singapura main road near Singapura Circle in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri. Subbanna, No.142, Singapura Village, Vidyaranyapura(P), Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-04-18
Sample ID No	:	2018-04-30-04 /02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/04/2018	24/05/2018	150.66 X 150.46 X 149.37	22668	8.126	519.1	22.9	22.9
2	Drain Concrete	M20	26/04/2018	24/05/2018	150.44 X 150.37 X 151.22	22622	8.167	522.6	23.1	
3	Drain Concrete	M20	26/04/2018	24/05/2018	150.47 X 150.78 X 150.76	22688	8.175	517.3	22.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-04-30-04** **Date: 04/05/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements drain and providing Covering slabs at Singapura main road near Singapura Circle in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri. Subbanna, No.142, Singapura Village, Vidyaranyapura(P), Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-04-18
Sample ID No	:	2018-04-30-04 /03
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	27/04/2018	04/05/2018	151.07 X 150.69 X 150.22	22765	8.201	425.7	18.7	18.3
2	Drain Concrete	M20	27/04/2018	04/05/2018	151.74 X 150.58 X 150.77	22849	8.015	409.0	17.9	
3	Drain Concrete	M20	27/04/2018	04/05/2018	150.69 X 150.79 X 150.50	22723	8.169	418.1	18.4	

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Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

****End of Report****

civilproexperts@gmail.com

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CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2018-04-30-04 Date: 25/05/2018
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements drain and providing Covering slabs at Singapura main road near Singapura Circle in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri. Subbanna, No.142, Singapura Village, Vidyaranyapura(P), Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-04-18
Sample ID No	:	2018-04-30-04 /04
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	27/04/2018	25/05/2018	150.77 X 151.46 X 150.49	22836	8.201	513.8	22.5	22.8
2	Drain Concrete	M20	27/04/2018	25/05/2018	150.44 X 149.63 X 150.27	22510	8.169	520.0	23.1	
3	Drain Concrete	M20	27/04/2018	25/05/2018	150.67 X 150.43 X 150.77	22665	8.144	514.5	22.7	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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